

AMENDMENT UNDER 37 C.F.R. § 1.116
EXPEDITED PROCEDURE
APPLN. NO. 09/986,868

DOCKET NO. Q67209
GROUP ART NO. 2664

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1-22. (Cancelled).

23. (currently amended): A transmission power control method, comprising:
step for receiving a signal transmitted from a communication counterpart station;
step for measuring a reception quality value of each received time slot;

control instruction determining step for ~~periodically~~, in a periodicity shorter than a pre-determined interleaved block period, determining a control instruction depending upon said reception quality values of ~~said plurality of time slots that have already been received in a pre-determined interleaved block~~; and

transmission step for transmitting said control instruction to said counterpart station,
whereby said control instruction being used for transmission power control of said counterpart station,

wherein error correction coding process is provided for information bit series of the signal transmitted from said counterpart station, the ~~time-slot group~~ interleaved block is consisted of a plurality of time slots to provide interleaving per said ~~time-slot group~~ interleaved block, and

said control instruction determining step determines said control instruction based on the reception quality values of the time slots contained in the time slot group on reception.

24. (Previously Presented) A transmission power control method as set forth in claim 23, wherein said control instruction determining step is to form said time slot group by a plurality of time slots and to determine said control instruction based on the reception quality values of the time slots contained in said time slot group on reception.

25. (Previously Presented) A transmission power control method as set forth in claim 24, wherein said control instruction determining step comprises:

step for comparing one of a median value of the reception quality values of slots contained in the time slot group on reception, X% value wherein X is a value in a range from 0 to 100 or an average value with a first control reference value, and

step for determining said control instruction based on the result of comparison.

26. (Previously Presented) A transmission power control method as set forth in claim 25, which further comprises:

step of checking presence or absence of error of received signal, and said first control reference value is varied depending upon detected error.

27. (Previously Presented) A transmission power control method as set forth in claim 23, wherein said control instruction determining step includes step for increasing the transmission power of the counterpart station when the reception quality value of the time slot measured per reception of said time slot is smaller than a second control reference value.

28. (Previously Presented) A transmission power control method as set forth in claim 23, wherein said control instruction determining step includes step for decreasing the transmission power of the counterpart station when the reception quality value of the time slot measured per reception of said time slot is greater than a third control reference value.

29. (Currently Amended) A transmitting and receiving apparatus, comprising:
receiving means for receiving a signal transmitted from a communication counterpart station;

measuring means for measuring a reception quality value of each received time slot;

control instruction determining means for ~~periodically~~, in a periodicity shorter than a pre-determined interleaved block period, determining a control instruction depending upon said reception quality values of ~~said plurality of time slots that have already been received in a pre-~~determined interleaved block; and

transmitting means for transmitting said control instruction to said counterpart station for use in transmission power control of said counterpart station,

wherein error correction coding means are provided for information bit series of the signal transmitted from said counterpart station,

wherein said control instruction determining means forms a time slot group per an interleaved block as an interleaved unit in the counterpart station and determines said control instruction based on the reception quality values of the time slots contained in the time slot group on reception.

30. (Previously Presented) A transmitting and receiving apparatus as set forth in claim 29, wherein said control instruction determining means forms said time slot group by a plurality of time slots and to determine said control instruction based on the reception quality values of the time slots contained in said time slot group on reception.

31. (Previously Presented) A transmitting and receiving apparatus as set forth in claim 29, wherein said control instruction determining means compares one of a median value of the reception quality values of slots contained in the time slot group on reception, X% value wherein X is a value in a range from 0 to 100 or an average value with a first control reference value and determines said control instruction based on the result of comparison.

32. (Previously Presented) A transmitting and receiving apparatus as set forth in claim 31, which further comprises:

means for checking presence or absence of error of received signal, and means for varying said first control reference value depending upon detected error.

33. (Previously Presented) A transmitting and receiving apparatus as set forth in claim 29, wherein said control instruction determining means increases the transmission power of the counterpart station when the reception quality value of the time slot measured per reception of said time slot is smaller than a second control reference value.

34. (Previously Presented) A transmitting and receiving apparatus as set forth in claim 29, wherein said control instruction determining means decreases the transmission power of the counterpart station when the reception quality value of the time slot measured per reception of said time slot is greater than a third control reference value.

35. (Previously Presented) A base station including a transmitting and receiving apparatus defined in claim 29.

36. (Previously Presented) A mobile station including a transmitting and receiving apparatus defined in claim 29.